

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/050829

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04L1/00 H03M13/23

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H03M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DIVSALAR D ET AL: "THE DESIGN OF TRELLIS CODED MPSK FOR FADING CHANNELS: PERFORMANCE CRITERIA"          IEEE TRANSACTIONS ON COMMUNICATIONS, IEEE INC. NEW YORK, US,          vol. 36, no. 9,          1 September 1988 (1988-09-01), pages          1004-1011, XP000026970          ISSN: 0090-6778          the whole document</p> <p style="text-align: center;">-----          -/—</p>	<p>1-6,          8-12, 14,          15, 17,          18, 20, 24</p>

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

1 July 2005

Date of mailing of the international search report

09/08/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SONE N ET AL: "Optimal free distance convolutional codes for rates 1/2, 1/3 and 1/4" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 35, no. 15, 22 July 1999 (1999-07-22), pages 1240-1241, XP006012449 ISSN: 0013-5194 table III</p>	1-27
A	<p>CHAMBERS W &amp; ED - NG C S ET AL: "On good convolutional codes of rate 1/2, 1/3, and 1/4" SINGAPORE ICCS/ISITA '92. 'COMMUNICATIONS ON THE MOVE' SINGAPORE 16-20 NOV. 1992, NEW YORK, NY, USA, IEEE, US, 16 November 1992 (1992-11-16), pages 750-754, XP010067141 ISBN: 0-7803-0803-4</p>	1-27
A	<p>3GPP: "TS 25.222 v5.2.0" TECHNICAL SPECIFICATION GROUP RADIO ACCESS NETWORK, MULTIPLEXING AND CHANNEL CODING (TDD), 'Online! September 2002 (2002-09), XP002334291 Retrieved from the Internet: URL: <a href="http://www.3gpp.org/ftp/Specs/html-info/25222.htm">http://www.3gpp.org/ftp/Specs/html-info/25222.htm</a> page 16</p>	1-27
T	<p>GANG WU; YUEHENG LI: "Improved Convolutional Code Design for 3GPP TDD systems." WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, 2005 IEEE, vol. 1, 17 March 2005 (2005-03-17), pages 353-358, XP002334292 the whole document</p>	1-27

## PCT REQUEST

Print Out (Original in Electronic Form)

VIII-2-1	<b>Declaration: Entitlement to apply for and be granted a patent</b> Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	in relation to this international application  KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, WU, Gang
VIII-2-1(i)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, LI, Yueheng
VIII-2-1(i)	This declaration is made for the purposes of:	all designations except the designation of the United States of America